

What is claimed is:

1. An expansion valve comprising:

5 a body having at least one or more flow channels, each of which has inlets and outlets whose central lines are at an approximate right angle to each other, and a guide part formed on an intersection between the inlet and the outlet for guiding the flow of working fluid;

10 a head part mounted on the body and reciprocating a rod in an axial direction by expansion and contraction actions according to a temperature change of the working fluid discharged from an outlet of an evaporator and flowing through the flow channel; and

15 opening means for controlling a flow amount of the working fluid flowing through the flow channel according to the movement of the rod.

20 2. The expansion valve according to claim 1, wherein the guide part includes inclined surfaces formed on the inlet and the outlet respectively.

3. The expansion valve according to claim 1, wherein the guide part is formed on the flow channel communicating with the outlet side of the evaporator.

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4. The expansion valve according to claim 1, wherein the inlets and the outlets are formed eccentrically from the body.

5 5. The expansion valve according to claim 2, wherein the inclined surfaces have the same shape as an end blade of a drill for forming the inlet and the outlet.

10 6. The expansion valve according to claim 2, wherein a length between start portions of the inclined surfaces of the inlet and the outlet and the center of a through hole of the body through which the rod goes satisfies the following formula: $0 \leq L \leq 4.5\text{mm}$.